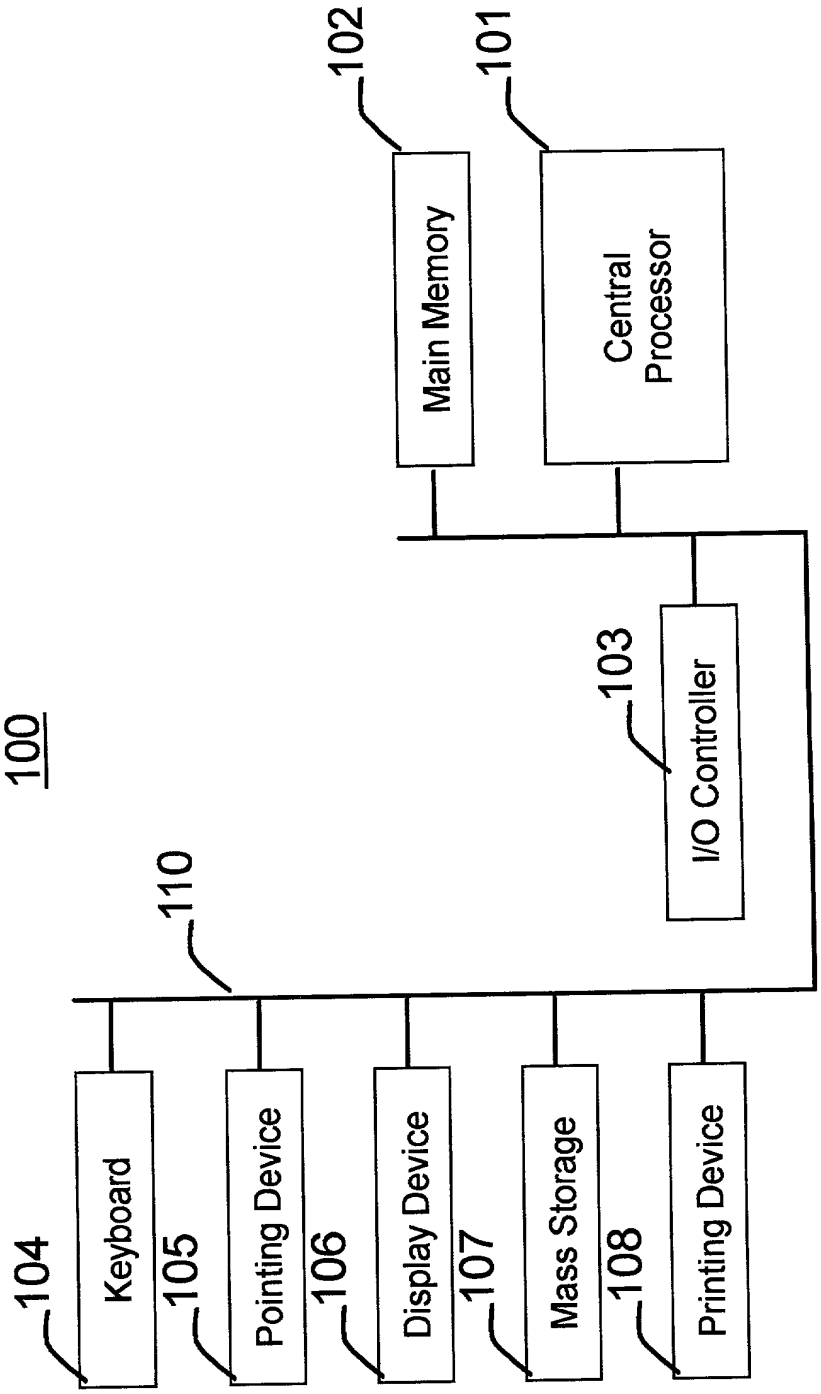
100
102
Main Memory
101
Central Processor
103
I/O Controller
110
104
Keyboard
105
Pointing Device
106
Display Device
107
Mass Storage
108
Printing Device

FIG 1A

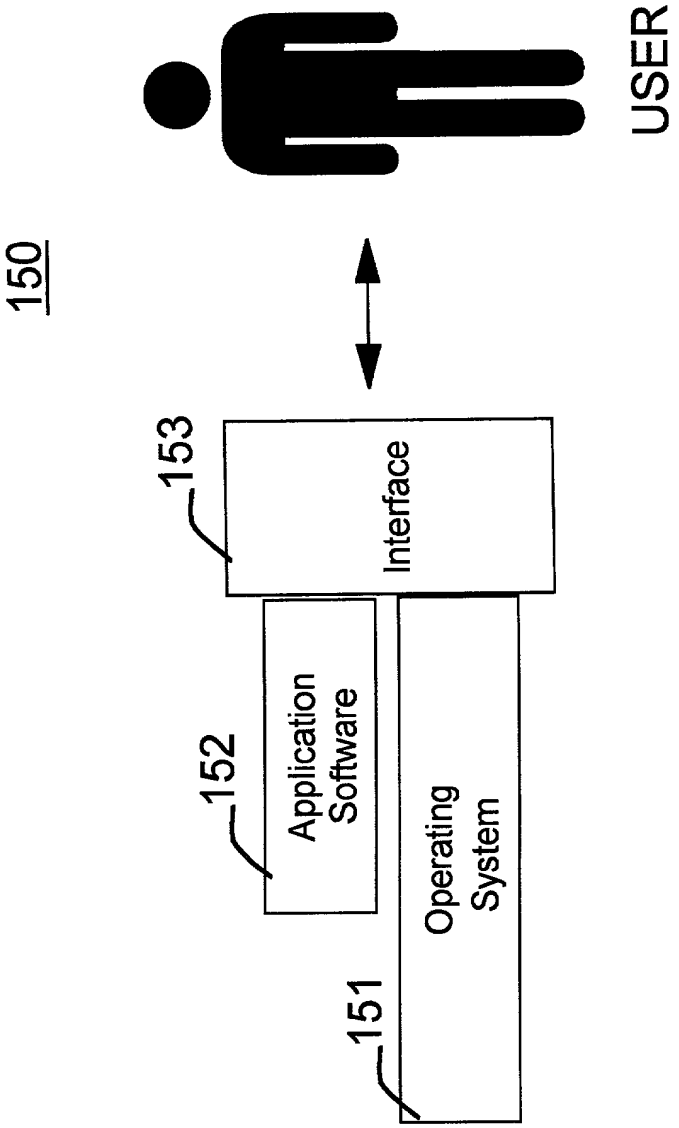
150
USER
153
Interface
152
Application Software
151
Operating System

FIG 1B

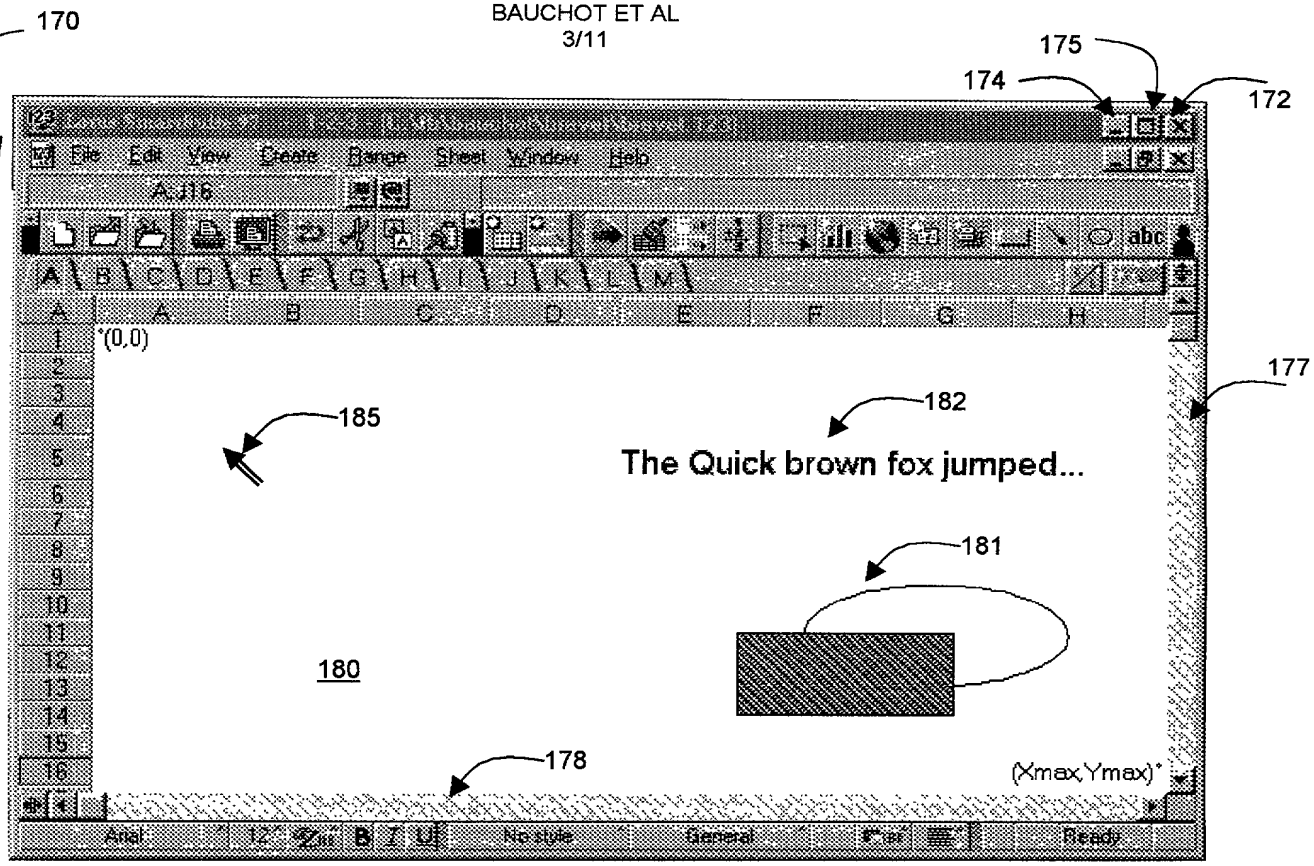
170
175
174
172
177
185
182
The Quick brown fox jumped...
181
180
178
(0,0)
(Xmax,Ymax)
160

FIG.1C

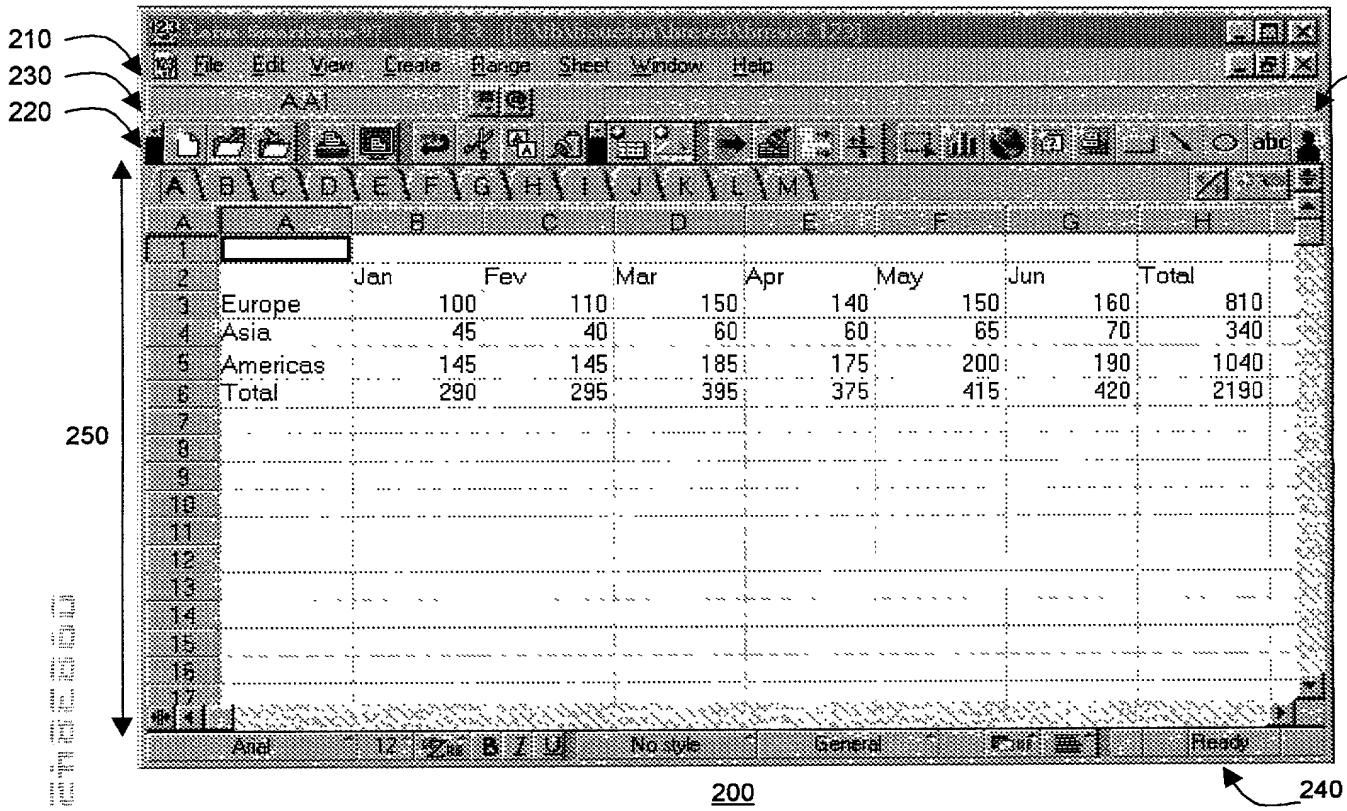
210
230
220
231
250
240
200
File Edit View Create Range Sheet Window Help
Jan Fev Mar Apr May Jun Total
Europe 100 110 150 140 150 160 810
Asia 45 40 60 60 65 70 340
Americas 145 145 185 175 200 190 1040
Total 290 295 395 375 415 420 2190
Ready

FIG. 2A

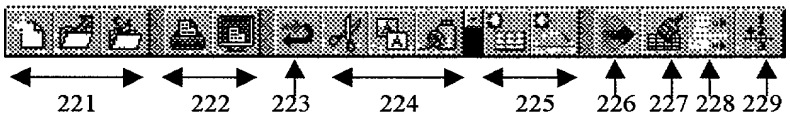

FIG. 2B

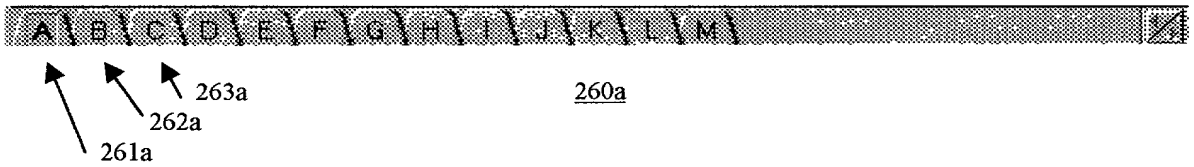

FIG. 2C

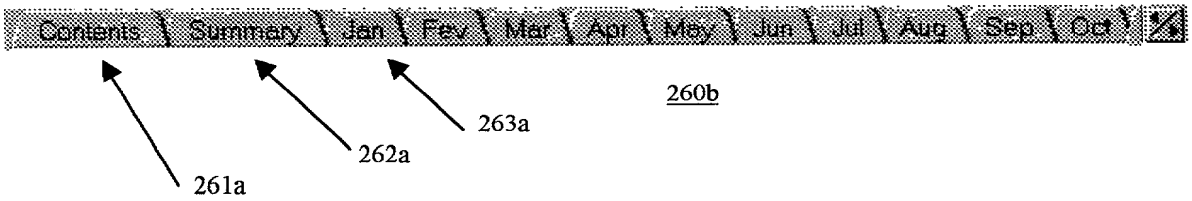

FIG. 2D

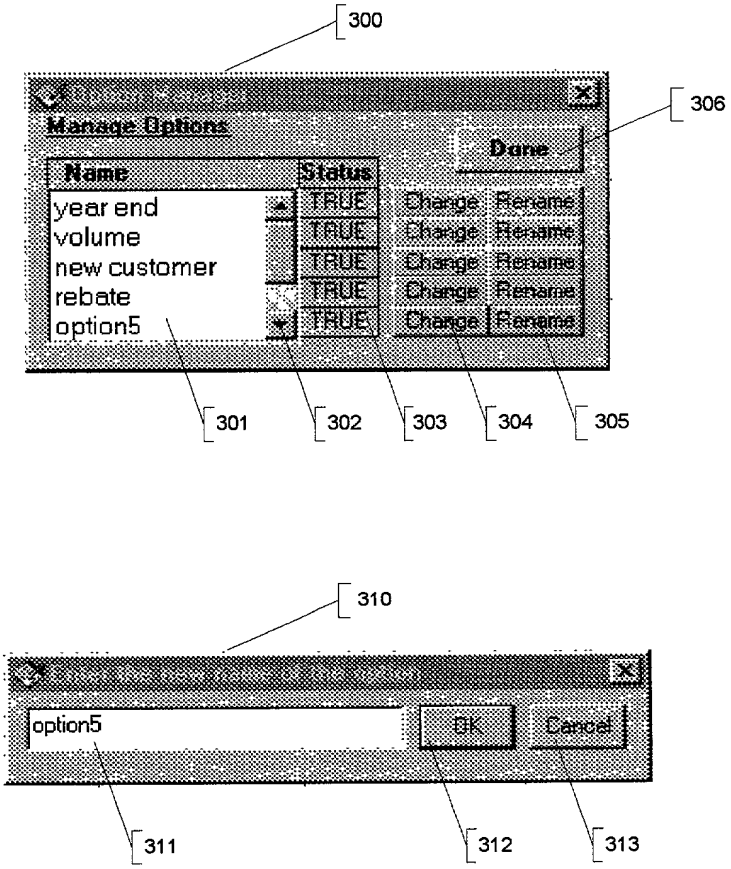
300
306
Manage Options
Done
Name
Status
year end
volume
new customer
rebate
option5
TRUE
TRUE
TRUE
TRUE
TRUE
Change
Rename
301
302
303
304
305
310
option5
OK
Cancel
311
312
313

Fig. 3

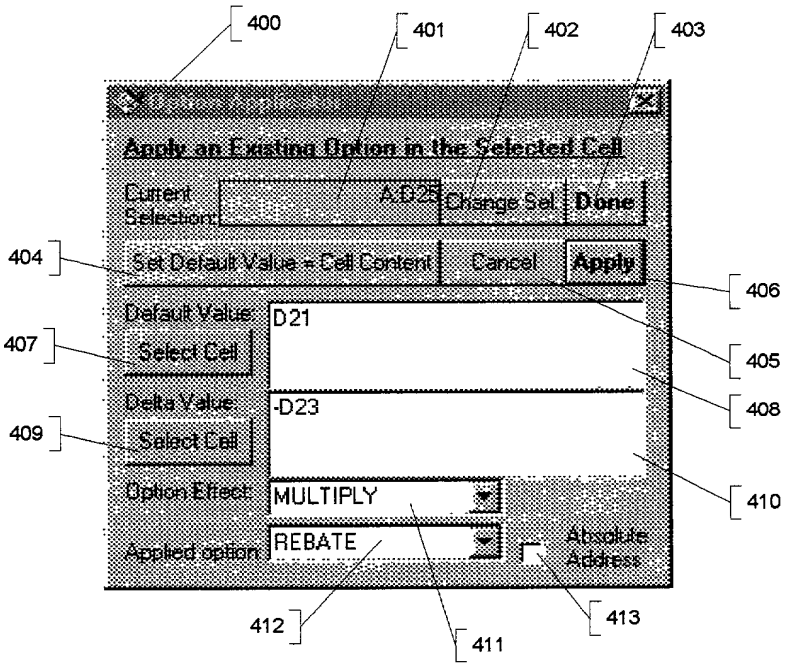
400
401
402
403
Apply an Existing Option in the Selected Cell
Current Selection:
A1:D25
Change Sel
Done
404
Set Default Value = Cell Content
Cancel
Apply
406
Default Value:
D21
407
Select Cell
405
Delta Value:
-D23
408
409
Select Cell
Option Effect:
MULTIPLY
410
Applied option:
REBATE
Absolute Address
412
411
413

Fig. 4

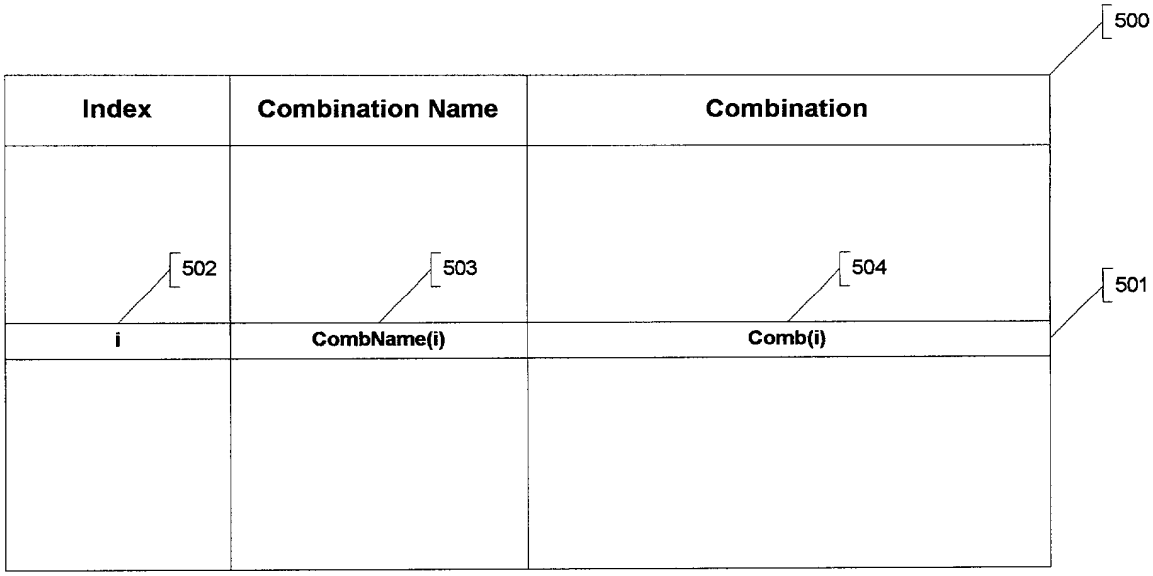
500
Index
Combination Name
Combination
502
503
504
501
i
CombName(i)
Comb(i)

Fig. 5

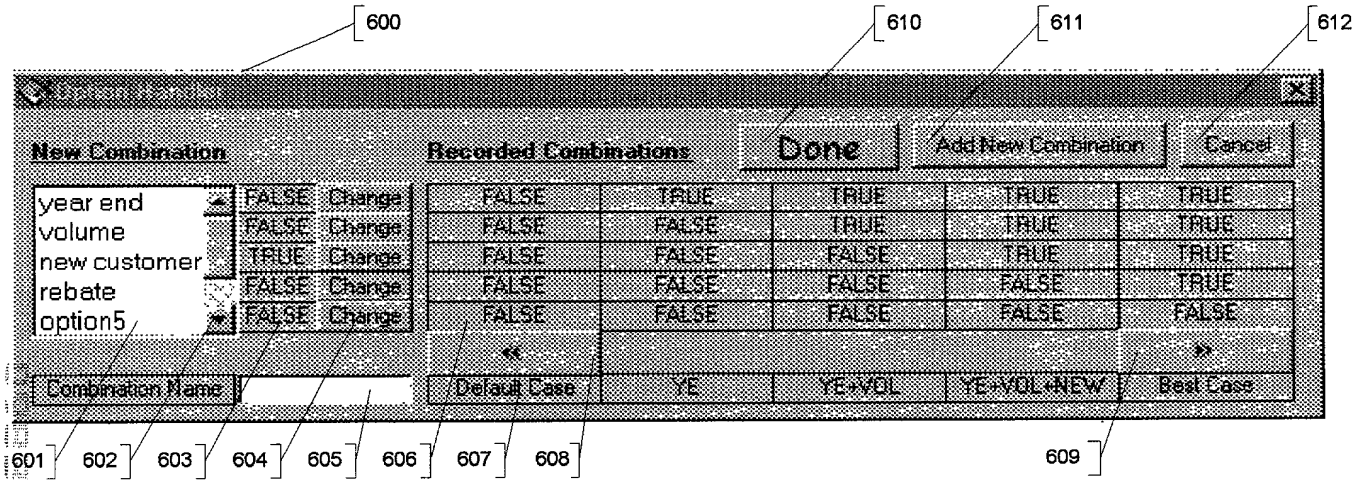
600
610
611
612
New Combination
Recorded Combinations
Done
Add New Combination
Cancel
year end
volume
new customer
rebate
option5
FALSE Change
FALSE Change
TRUE Change
FALSE Change
FALSE Change
FALSE TRUE TRUE TRUE TRUE
FALSE FALSE TRUE TRUE TRUE
FALSE FALSE FALSE TRUE TRUE
FALSE FALSE FALSE FALSE TRUE
FALSE FALSE FALSE FALSE FALSE
Combination Name
Default Case
YE
YE+VOL
YE+VOL+NEW
Best Case
601
602
603
604
605
606
607
608
609

Fig. 6

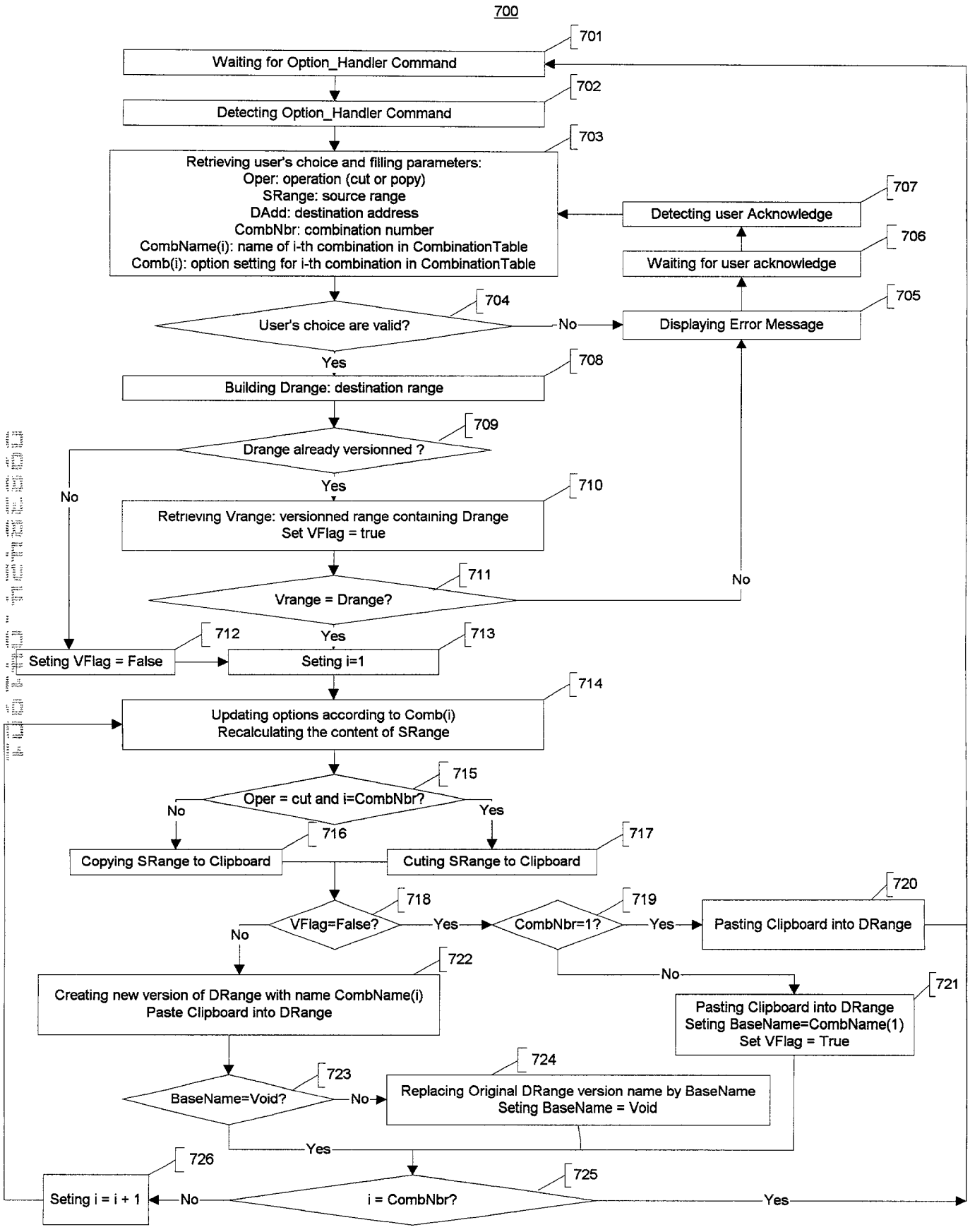
700
701
Waiting for Option_Handler Command
702
Detecting Option_Handler Command
703
Retrieving user's choice and filling parameters:
Oper: operation (cut or popy)
SRange: source range
DAdd: destination address
CombNbr: combination number
CombName(i): name of i-th combination in CombinationTable
Comb(i): option setting for i-th combination in CombinationTable
707
Detecting user Acknowledge
706
Waiting for user acknowledge
705
Displaying Error Message
704
User's choice are valid?
No
Yes
708
Building Drange: destination range
709
Drange already versionned ?
No
Yes
710
Retrieving Vrange: versionned range containing Drange
Set VFlag = true
711
Vrange = Drange?
No
712
Seting VFlag = False
Yes
713
Seting i=1
714
Updating options according to Comb(i)
Recalculating the content of SRange
715
Oper = cut and i=CombNbr?
No
Yes
716
Copying SRange to Clipboard
717
Cuting SRange to Clipboard
718
VFlag=False?
No
Yes
719
CombNbr=1?
Yes
No
720
Pasting Clipboard into DRange
721
Pasting Clipboard into DRange
Seting BaseName=CombName(1)
Set VFlag = True
722
Creating new version of DRange with name CombName(i)
Paste Clipboard into DRange
723
BaseName=Void?
No
Yes
724
Replacing Original DRange version name by BaseName
Seting BaseName = Void
725
i = CombNbr?
No
Yes
726
Seting i = i + 1

Fig. 7

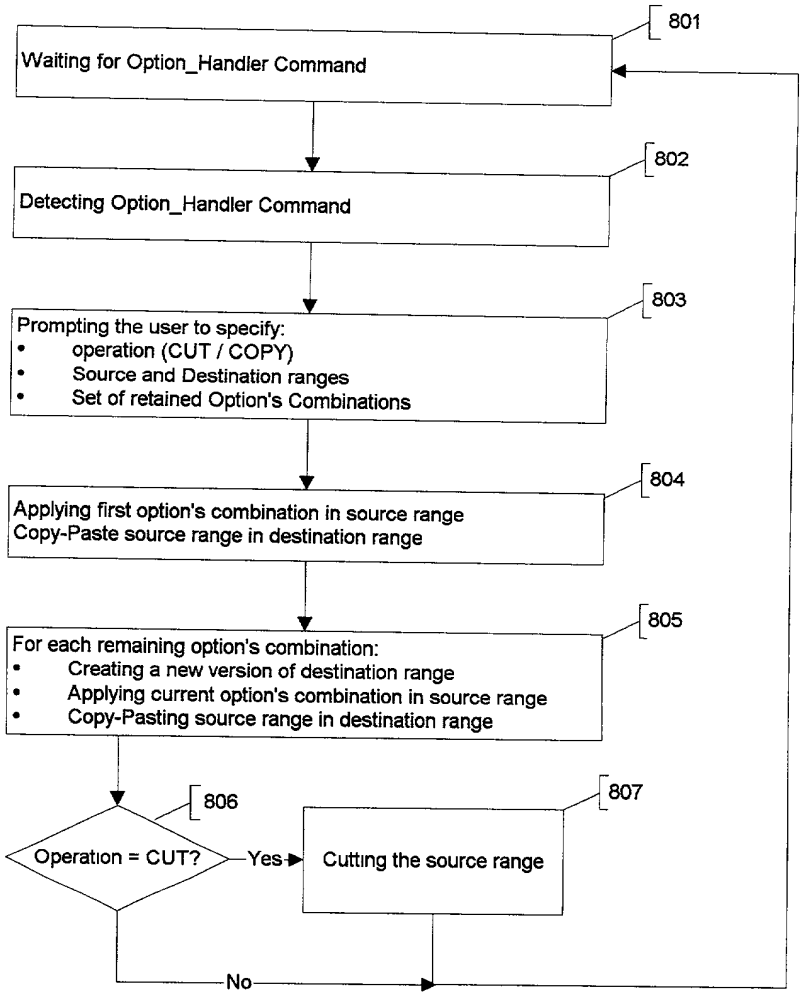
801
Waiting for Option_Handler Command
802
Detecting Option_Handler Command
803
Prompting the user to specify:
• operation (CUT / COPY)
• Source and Destination ranges
• Set of retained Option's Combinations
804
Applying first option's combination in source range
Copy-Paste source range in destination range
805
For each remaining option's combination:
• Creating a new version of destination range
• Applying current option's combination in source range
• Copy-Pasting source range in destination range
806
Operation = CUT?
Yes
807
Cutting the source range
No

Fig. 8